

19	95	257/780.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:11
20	60	(257/780.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)) not (257/778.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:11
21	101376	((@ad<19991110) and ((fatigue or stress or expansion or contraction) with (direction or align or aligned or oriented or orient or position or positioned)))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:14
22	137	((@ad<19991110) and ((fatigue or stress or expansion or contraction) with (direction or align or aligned or oriented or orient or position or positioned))) and ((pad or pads) with (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:15
23	131	((@ad<19991110) and ((fatigue or stress or expansion or contraction) with (direction or align or aligned or oriented or orient or position or positioned))) and ((pad or pads) with (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110)) not (257/778.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:15
24	136	((@ad<19991110) and ((fatigue or stress or expansion or contraction) with (direction or align or aligned or oriented or orient or position or positioned))) and ((pad or pads) with (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110)) not ((257/737.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)) not (257/778.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:15
25	130	((@ad<19991110) and ((fatigue or stress or expansion or contraction) with (direction or align or aligned or oriented or orient or position or positioned))) and ((pad or pads) with (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110)) not (257/778.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)) not ((257/737.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)) not (257/778.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:15
26	1500	438/\$.ccls. and ((solder or interconnection or interconnect or ball or bump) with (fatigue or stress or expansion or contraction))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:18

27	1500	438/\$.ccls. and ((solder or interconnection or interconnect or ball or bump) with (fatigue or stress or expansion or contraction))	USPAT; EPO; JPO; DERWENT; IBM TDB	2004/03/29 14:18
28	629	(438/\$.ccls. and ((solder or interconnection or interconnect or ball or bump) with (fatigue or stress or expansion or contraction))) and mask	USPAT; EPO; JPO; DERWENT; IBM TDB	2004/03/29 14:19

L Number	Hits	Search Text	DB	Time stamp
1	1	("6218291").PN.	USPAT	2004/03/29 12:25
2	1	("6218281").PN.	USPAT	2004/03/29 12:30
3	2	((("6211937") or ("5872404"))).PN.	USPAT	2004/03/29 12:43
4	2	((("6118182") or ("6194667"))).PN.	USPAT	2004/03/29 13:18
5	6174	(pad or pads) with (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:02
6	242	((pad or pads) with (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110)) and ((solder or interconnection or interconnect or ball or bump) with (stress or expansion or contraction))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:00
7	25	5523920.URPN.	USPAT	2004/03/29 13:57
8	15	("3189978"   "3192086"   "3716907"   "4336551"   "5075965"   "5187020"   "5282565"   "5291374"   "5311404"   "5316788"   "5329068"   "5357060"   "5383093"   "5400221"   "5400950").PN.	USPAT	2004/03/29 13:57
9	70	((pad or pads) with (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110)) and ((solder or interconnection or interconnect or ball or bump) with (fatigue))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:17
10	12	257/118.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:02
11	154	257/778.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:12
12	1	6118182.URPN.	USPAT	2004/03/29 14:05
13	6	("5001829"   "5444303"   "5471090"   "5477082"   "5531021"   "5784262").PN.	USPAT	2004/03/29 14:05
14	127	257/738.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:11
15	73	(257/738.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)) not (257/778.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:19
16	50	257/734.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:09
17	151	257/737.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:09
18	91	(257/737.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)) not (257/778.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:09

L Number	Hits	Search Text	DB	Time stamp
1	1	("6218291").PN.	USPAT	2004/03/29 12:25
2	1	("6218281").PN.	USPAT	2004/03/29 12:30
3	2	((("6211937") or ("5872404")).PN.	USPAT	2004/03/29 12:43
4	2	((("6118182") or ("6194667")).PN.	USPAT	2004/03/29 13:18
5	6174	(pad or pads) with (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:02
6	242	((pad or pads) with (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110)) and ((solder or interconnection or interconnect or ball or bump) with (stress or expansion or contraction))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:00
7	25	5523920.URPN.	USPAT	2004/03/29 13:57
8	15	("3189978"   "3192086"   "3716907"   "4336551"   "5075965"   "5187020"   "5282565"   "5291374"   "5311404"   "5316788"   "5329068"   "5357060"   "5383093"   "5400221"   "5400950").PN.	USPAT	2004/03/29 13:57
9	70	((pad or pads) with (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110)) and ((solder or interconnection or interconnect or ball or bump) with (fatigue))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:17
10	12	257/118.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:02
11	154	257/778.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:12
12	1	6118182.URPN.	USPAT	2004/03/29 14:05
13	6	("5001829"   "5444303"   "5471090"   "5477082"   "5531021"   "5784262").PN.	USPAT	2004/03/29 14:05
14	127	257/738.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:11
15	73	(257/738.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)) not (257/778.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:19
16	50	257/734.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 15:15
17	151	257/737.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:09
18	91	(257/737.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)) not (257/778.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:09

19	95	257/780.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:11
20	60	(257/780.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)) not (257/778.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:11
21	101376	((@ad<19991110) and ((fatigue or stress or expansion or contraction) with (direction or align or aligned or oriented or orient or position or positioned)))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:14
22	137	((@ad<19991110) and ((fatigue or stress or expansion or contraction) with (direction or align or aligned or oriented or orient or position or positioned))) and ((pad or pads) with (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:15
23	131	(((@ad<19991110) and ((fatigue or stress or expansion or contraction) with (direction or align or aligned or oriented or orient or position or positioned))) and ((pad or pads) with (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110))) not (257/778.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:15
24	136	(((@ad<19991110) and ((fatigue or stress or expansion or contraction) with (direction or align or aligned or oriented or orient or position or positioned))) and ((pad or pads) with (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110))) not ((257/737.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)) not (257/778.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:15
25	130	(((((ad<19991110) and ((fatigue or stress or expansion or contraction) with (direction or align or aligned or oriented or orient or position or positioned))) and ((pad or pads) with (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110))) not (257/778.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)) not ((257/737.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)) not (257/778.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction)))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:15
26	1500	438/\$.ccls. and ((solder or interconnection or interconnect or ball or bump) with (fatigue or stress or expansion or contraction))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 15:22

27	1500	438/\$.ccls. and ((solder or interconnection or interconnect or ball or bump) with (fatigue or stress or expansion or contraction))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:18
28	629	(438/\$.ccls. and ((solder or interconnection or interconnect or ball or bump) with (fatigue or stress or expansion or contraction))) and mask	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:19
29	613	((438/\$.ccls. and ((solder or interconnection or interconnect or ball or bump) with (fatigue or stress or expansion or contraction))) and mask) not (257/778.ccls. and (mask or nonwetable or nonwet or (non adj wettable)) and (@ad<19991110) and (fatigue or stress or expansion or contraction))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 14:19
30	1296	((mask or nonwetable or nonwet or (non adj wettable)) same (elliptical or oblong or oval)) and (@ad<19991110)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 15:30
31	141	((((mask or nonwetable or nonwet or (non adj wettable)) same (elliptical or oblong or oval)) and (@ad<19991110) ) and (pad or pads)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 15:22
32	4509	((fatigue or stress or expansion or contraction) same (elliptical or oblong or oval)) and (@ad<19991110)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 15:22
33	1041	((((fatigue or stress or expansion or contraction) same (elliptical or oblong or oval)) and (@ad<19991110) ) and (pad or pads or ball or bump or bumps or balls or interconnect or interocnnction or solder)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 15:23
34	337	(((((fatigue or stress or expansion or contraction) same (elliptical or oblong or oval)) and (@ad<19991110) ) and (pad or pads or ball or bump or bumps or balls or interconnect or interocnnction or solder)) and (pad or pads)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 15:34
35	333	((((((fatigue or stress or expansion or contraction) same (elliptical or oblong or oval)) and (@ad<19991110) ) and (pad or pads or ball or bump or bumps or balls or interconnect or interocnnction or solder)) and (pad or pads)) not (((mask or nonwetable or nonwet or (non adj wettable)) same (elliptical or oblong or oval)) and (@ad<19991110) ) and (pad or pads))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 15:24
36	341	((mask or nonwetable or nonwet or (non adj wettable)) with ((holes or openins or opening or gap or gaps or space or spaces) and (elliptical or oblong or oval))) and (@ad<19991110)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 15:33
37	341	((((mask or nonwetable or nonwet or (non adj wettable)) with ((holes or openins or opening or gap or gaps or space or spaces) and (elliptical or oblong or oval))) and (@ad<19991110) ) not ((((((fatigue or stress or expansion or contraction) same (elliptical or oblong or oval)) and (@ad<19991110) ) and (pad or pads or ball or bump or bumps or balls or interconnect or interocnnction or solder)) and (pad or pads)) not (((mask or nonwetable or nonwet or (non adj wettable)) same (elliptical or oblong or oval)) and (@ad<19991110) ) and (pad or pads)))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 15:33

38	39	(((mask or nonwetable or nonwet or (non adj wettable)) with ((holes or openins or opening or gap or gaps or space or spaces) and (elliptical or oblong or oval))) and (@ad<19991110) ) not ((((((fatigue or stress or expansion or contraction) same (elliptical or oblong or oval)) and (@ad<19991110) ) and (pad or pads or ball or bump or bumps or balls or interconnect or interocnnetion or solder)) and (pad or pads)) not (((mask or nonwetable or nonwet or (non adj wettable)) same (elliptical or oblong or oval)) and (@ad<19991110) ) and (pad or pads)))) and (pad or pads)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/03/29 15:34
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